



Rec'd PCT/PTO 08 OCT 2004

Attorney Docket No. 61646 (70904)

- 1 / 4 -

SEQUENCE LISTING

<110> Shiozawa, Shunichi

<120> DNA structure and proteins responsible for the pathogenesis
of rheumatoid arthritis, diagnostic method of the disease,
diagnostic kit for detecting the disease,
treatment technique and curative medicine of the disease

<130> 61646 (70904)

<140> 10/501,259

<141> 2004-07-09

<150> PCT/JP03/00089

<151> 2003-01-08

<150> JP 2002-005326

<151> 2002-01-11

<160> 9

<170> PatentIn Ver. 2.1

<210> 1

<211> 498

<212> PRT

<213> Homo sapiens

<400> 1

Met	Thr	Val	Phe	Leu	Ser	Phe	Ala	Phe	Leu	Ala	Ala	Ile	Leu	Thr	His
1				5					10					15	
Ile	Gly	Cys	Ser	Asn	Gln	Arg	Arg	Ser	Pro	Glu	Asn	Ser	Gly	Arg	Arg
			20					25					30		
Tyr	Asn	Arg	Ile	Gln	His	Gly	Gln	Cys	Ala	Tyr	Thr	Phe	Ile	Leu	Pro
			35				40					45			
Glu	His	Asp	Gly	Asn	Cys	Arg	Glu	Ser	Thr	Thr	Asp	Gln	Tyr	Asn	Thr
			50				55				60				
Asn	Ala	Leu	Gln	Arg	Asp	Ala	Pro	His	Val	Glu	Pro	Asp	Phe	Ser	Ser
					70					75					80
Gln	Lys	Leu	Gln	His	Leu	Glu	His	Val	Met	Glu	Asn	Tyr	Thr	Gln	Trp
				85					90					95	
Leu	Gln	Lys	Leu	Glu	Asn	Tyr	Ile	Val	Glu	Asn	Met	Lys	Ser	Glu	Met
			100					105					110		
Ala	Gln	Ile	Gln	Gln	Asn	Ala	Val	Gln	Asn	His	Thr	Ala	Thr	Met	Leu
			115					120					125		
Glu	Ile	Gly	Thr	Ser	Leu	Leu	Ser	Gln	Thr	Ala	Glu	Gln	Thr	Arg	Lys
			130				135				140				
Leu	Thr	Asp	Val	Glu	Thr	Gln	Val	Leu	Asn	Gln	Thr	Ser	Arg	Leu	Glu
					150				155						160
Ile	Gln	Leu	Leu	Glu	Asn	Ser	Leu	Ser	Thr	Tyr	Lys	Leu	Glu	Lys	Gln
				165					170					175	
Leu	Leu	Gln	Gln	Thr	Asn	Glu	Ile	Leu	Lys	Ile	His	Glu	Lys	Asn	Ser
			180					185					190		
Leu	Leu	Glu	His	Lys	Ile	Leu	Glu	Met	Glu	Gly	Lys	His	Lys	Glu	Glu
			195				200					205			
Leu	Asp	Thr	Leu	Lys	Glu	Glu	Lys	Glu	Asn	Leu	Gln	Gly	Leu	Val	Thr
			210				215					220			

- 2 / 4 -

Arg Gln Thr Tyr Ile Ile Gln Glu Leu Glu Lys Gln Leu Asn Arg Ala
 225 230 235 240
 Thr Thr Asn Asn Ser Val Leu Gln Lys Gln Gln Leu Glu Leu Met Asp
 245 250 255
 Thr Val His Asn Leu Val Asn Leu Cys Thr Lys Glu Gly Val Leu Leu
 260 265 270
 Lys Gly Gly Lys Arg Glu Glu Glu Lys Pro Phe Arg Asp Cys Ala Asp
 275 280 285
 Val Tyr Gln Ala Gly Phe Asn Lys Ser Gly Ile Tyr Thr Ile Tyr Ile
 290 295 300
 Asn Asn Met Pro Glu Pro Lys Lys Val Phe Cys Asn Met Asp Val Asn
 305 310 315 320
 Gly Gly Gly Trp Thr Val Ile Gln His Arg Glu Asp Gly Ser Leu Asp
 325 330 335
 Phe Gln Arg Gly Trp Lys Glu Tyr Lys Met Gly Phe Gly Asn Pro Ser
 340 345 350
 Gly Glu Tyr Trp Leu Gly Asn Glu Phe Ile Phe Ala Ile Thr Ser Gln
 355 360 365
 Arg Gln Tyr Met Leu Arg Ile Glu Leu Met Asp Trp Glu Gly Asn Arg
 370 375 380
 Ala Tyr Ser Gln Tyr Asp Arg Phe His Ile Gly Asn Glu Lys Gln Asn
 385 390 395 400
 Tyr Arg Leu Tyr Leu Lys Gly His Thr Gly Thr Ala Gly Lys Gln Ser
 405 410 415
 Ser Leu Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn
 420 425 430
 Asp Asn Cys Met Cys Lys Cys Ala Leu Met Leu Thr Gly Gly Trp Trp
 435 440 445
 Phe Asp Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr Ala
 450 455 460
 Gly Gln Asn His Gly Lys Leu Asn Gly Ile Lys Trp His Tyr Phe Lys
 465 470 475 480
 Gly Pro Ser Tyr Ser Leu Arg Ser Thr Thr Met Met Ile Arg Pro Leu
 485 490 495
 Asp Phe

<210> 2

<211> 1497

<212> DNA

<213> Homo sapiens

<400> 2

atgacagttt tcctttcctt tgctttcctc gctgccattc tgactcacat aggggtgcagc 60
 aatcagcgcc gaagtccaga aaacagtggg agaagatata accggattca acatgggcaa 120
 tgtgcctaca ctttcattct tccagaacac gatggcaact gtcgtgagag tacgacagac 180
 cagtacaaca caaacgctct gcagagagat gctccacacg tggaaaccgga tttctcttcc 240
 cagaaacttc aacatctgga acatgtgatg gaaaattata ctcaagtggct gcaaaaactt 300
 gagaattaca ttgtggaaaa catgaagtcg gagatggccc agatacagca gaatgcagtt 360
 cagaaccaca cggctaccat gctggagata ggaaccagcc tcctctctca gactgcagag 420
 cagaccagaa agctgacaga tgttgagacc caggtactaa atcaaaactt tcgacttgag 480
 atacagctgc tggagaattc attatccacc tacaagctag agaagcaact tcttcaacag 540
 acaaatgaaa tcttgaagat ccatgaaaaa aacagtttat tagaacataa aatcttagaa 600
 atggaaggaa aacacaagga agagttggac accttaaagg aagagaaaaga gaaccttcaa 660
 ggcttggtta ctctgcaaac atatataatc caggagctgg aaaagcaatt aaacagagct 720
 accaccaaca acagtgtcct tcagaagcag caactggagc tgatggacac agtccacaac 780
 cttgtcaatc tttgactaa agaaggtgtt ttactaaagg gagggaaaag agaggaagag 840
 aaaccattta gagactgtgc agatgtatat caagctgggt ttaataaaaag tggaatctac 900

- 3 / 4 -

```

actattttata ttaataatat gccagaaccc aaaaagggtgt tttgcaatat ggatgtcaat 960
ggggggagggtt ggactgtaat acaacatcgt gaagatggaa gtctagattt ccaaagaggc 1020
tggaaggaat ataaaatggg ttttggaat ccctccggtg aatattggct ggggaatgag 1080
tttatttttg ccattaccag tcagaggcag tacatgctaa gaattgagtt aatggactgg 1140
gaagggaacc gagcctattc acagtatgac agattccaca taggaaatga aaagcaaac 1200
tataggttgt atttaaaagg tcacactggg acagcaggaa aacagagcag cctgatctta 1260
cacggtgctg atttcagcac taaagatgct gataatgaca actgtatgtg caaatgtgcc 1320
ctcatgttaa caggaggatg gtggtttgat gcttgtggcc cctccaatct aaatggaatg 1380
ttctatactg cgggacaaaa ccatggaaaa ctgaatggga taaagtggca ctacttcaa 1440
gggcccagtt actccttacg ttccacaact atgatgattc gacctttaga tttttga 1497

```

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthesized
oligonucleotide

<400> 3

gctggcagta caatgacag

19

<210> 4

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthesized
oligonucleotide

<400> 4

tcaaaaatct aaaggctcgaa t

21

<210> 5

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthesized
oligonucleotide

<400> 5

caacctgtc aatctttgc

19

- 4 / 4 -

<210> 6
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Synthesized
 oligonucleotide

<400> 6
 acaccttttt gggttctggc 20

<210> 7
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Synthesized
 oligonucleotide

<400> 7
 tttgcgagag gcacggaa 18

<210> 8
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Synthesized
 oligonucleotide

<400> 8
 tatatcttct cccactgttt 20

<210> 9
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Synthesized
 oligonucleotide

<400> 9
 ttctctgctg ccattctgac tcacata 27